

ART 34 AMOT

Amended claims

CLAIMS

5

sub.c1

1 Process for anticipating and/or preventing the
risk of spontaneous ignition and/or explosion of an
explosive atmosphere stored in a confined or semi-confined
environment chosen from the group consisting of a grain
10 silo, a center for storing coal dust, industrial dusts,
animal or plant meals or fertilizers, driftways and fuel
tanks optionally incorporated in a vehicle, in which the
temperature of the mixture and any change over time are
measured from the time of creation of said atmosphere, and
15 the critical moment of spontaneous ignition and/or
explosion of this mixture is determined by determining the
induction time remaining to go, that is to say the time
elapsed between the creation of said atmosphere and the
critical moment beyond which there is a risk of said
20 atmosphere spontaneously igniting and/or exploding.

2. Process according to Claim 1, characterized
in that the fertilizers are chemical fertilizers or
ammonium nitrates.

3. Process according to Claim 1, characterized
25 in that the fuel tanks are tanks of hydrocarbons chosen
from the group consisting of kerosene, petroleum spirit,
methane, butane and propane.

4. Process according to Claim 1, characterized
in that the hydrocarbon tank is a truck, aircraft or boat
30 tank.

5. Process according to any one of the
preceding claims, characterized in that use is made of
alarm means or means for preventing spontaneous ignition
and/or explosion of said atmosphere when the time elapsed

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from the moment of creation of said atmosphere approaches the critical moment (τ_i) of spontaneous ignition.

6. Process according to any one of the preceding claims, characterized in that the implementation
- 5 of the alarm means and/or means for preventing spontaneous ignition and/or explosion of said atmosphere is engaged manually or automatically.

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ABSTRACT